



Republic of the Philippines
Department of Education
REGION I
SCHOOLS DIVISION OFFICE OF PANGASINAN II

Office of the Schools Division Superintendent

April 17, 2023

DIVISION MEMORANDUM

No. 164, s. 2023

DIVISION TRAINING/SEMINAR-WORKSHOP IN MATHEMATICS

To: Public Schools District Supervisors/District In-charge
Public and Private Elementary/Secondary School Heads
Inclusive Education Teachers
All Others Concerned

1. This office, through the Curriculum Implementation Division (CID) shall conduct a Division Training/Seminar-Workshop in Mathematics for Secondary and Elementary Mathematics teachers who are 0-3 years in the service.
2. This three (3) day in-person training/workshop aims at mapping out the essentials of Mathematics through recreational activities to enhance the numeracy level of learners and upscale the overall learner's learning outcomes. Specifically, it aims to:
 - a. Improve teachers' skills in using manipulatives for effective teaching;
 - b. Provide teachers the knowledge on the mechanics of recreational activities such as Modulo Arts, Tower of Hanoi, Sudoku, Rubik's cube, Magic Squares, Logic Problem; and
 - c. Integrate recreational activities in teaching.
3. Participants in this activity are the pre-registered elementary and secondary Mathematics teachers who are 0-3 years in the service and who will serve as trainers during echo-training in their respective schools or districts. Participants are advised to bring the needed materials to participate actively during the workshops.
4. Below are the training dates and clustered venues for the elementary and secondary participants:

Training/Workshop Title	Date	Venue
DIVISION TRAINING-WORKSHOP ON RECREATIONAL MATHEMATICS (Secondary)	April 21-23, 2023	Cluster 1: Sison IS, Sison, Pangasinan Cluster 2: Mangaldan NHS, Mangaldan, Pangasinan Cluster 3: Juan G. Macaraeg NHS, Binalonan, Pangasinan Cluster 4: Bautista NHS, Bautista, Pangasinan Cluster 5:



Training/Workshop Title	Date	Venue
		San Quintin NHS, San Quintin, Pangasinan
DIVISION SEMINAR-WORKSHOP IN TEACHING MATHEMATICS THROUGH RECREATIONAL ACTIVITIES (Elementary)	May 5-7, 2023	4th Congressional District: Embarcadero Elementary School, Mangaldan I 5th Congressional District: Linmansangan Elementary School, Binalonan II 6th Congressional District: San Pedro East Elementary School, Rosales II

5. Attached herewith are the Training Matrix and the list of Resource Speakers/Training Facilitators, the Program Management Team, and the Technical Working Group.
6. Teacher participants who will be attending the training/seminar during holidays and weekends shall be granted service credits based on the provision of DepEd Order No. 53, s. 2003. On the other hand, school heads, head teachers, and non-teaching personnel shall be provided with Compensatory Time Off (CTO) as stated in the CSC and DBM Joint Circular No. 2, s. 2004 "Non-monetary Remuneration for Overtime Services Rendered".
7. Training materials and other incidental expenses relative to the conduct of the said training shall be charged to voluntary contributions and other local funds. Travel and other incidental expenses of the participants shall be charged to local school funds/MOOE subject to the usual auditing and accounting procedures.
8. Immediate and wide dissemination of this memorandum is desired.

APPROVED FOR TRANSMISSION:

ARVIN R. PURISIMA
 ADMINISTRATIVE OFFICER V


LORNA G. BUGAYONG PhD, CESO V
 Schools Division Superintendent



**DIVISION TRAINING-WORKSHOP IN RECREATIONAL MATHEMATICS
(Secondary)**

DETAILED PROGRAM / MATRIX

Cluster I, Sison & Pozorrubio			
Venue: SISON CENTRAL INTEGRATED SCHOOL			
TIME	DAY 1: April 21, 2023	DAY 2: April 22, 2023	DAY 3: April 23, 2023
7:30-8:45	Registration	Preliminary Activities: • Prayer • Ice Breaker • Recap • Checking Attendance	Preliminary Activities: • Prayer • Ice Breaker • Recap • Checking Attendance
8:45 - 9:00	H E A L T H B R E A K		
9:00 – 10:00	Opening Program	Tower of Hanoi Mr. Renato Gatchalian (MT-I, NNHS)	Magic Square Mrs. Laarni Mejia (MT II, BVANHS)
10:00 – 11:00	Sudoku Puzzle Dr. Ana Perla B. De Guzman (HT-VI, BVANHS)	Modulo Arts 1 & 2 Mrs. Laarni Mejia (MT II, BVANHS)	Logic Problems Dr. Wilmarie Peduca (HT-III, Amagbagan IS)
11:00 – 12:00	Rubik's Cube Dr. Ana Perla B. De Guzman (HT-VI, BVANHS)		Workshop
12:00 – 1:00	L U N C H B R E A K		
1:00 – 3: 00	DAMATH Level 1-4 Mrs. Loyeth E. Tarampi (MT I, BVANHS)	Modulo Art Level 3 & 4 Dr. Josefina C. Gille (MT II, BVANHS)	Presentation of Outputs / Demo Teaching
3:00 – 5:00	Workshop	Workshop	Closing Program

Cluster II (Mangaldan, San Fabian, San Jacinto, Laoac, Manaog)			
Venue: MANGALDAN NATIONAL HIGHSCHOOL			
TIME	DAY 1: April 21, 2023	DAY 2: April 22, 2023	DAY 3: April 23, 2023
7:30-8:45	Registration	Preliminary Activities: • Prayer • Ice Breaker • Recap • Checking Attendance	Preliminary Activities: • Prayer • Ice Breaker • Recap • Checking Attendance
8:45 - 9:00	H E A L T H B R E A K		
9:00 – 10:00	Opening Program	Tower of Hanoi Ms. Marites Aquino (HT-III, SJNHS)	Rubik's Cube Dr. Ana Perla B. De Guzman (HT-VI, BVANHS)/ Joe Balusdasan
10:00 – 11:00	Sudoku Puzzle Mrs. Vivian U. Jallorina (HT-VI, SJNHS)	Logic Problems Dr. Wilmarie Peduca (HT-III, Amagbagan IS)	Magic Square Dr. Vivian P. Castro (MT, Mangaldan NHS)
11:00 – 12:00	DAMATH Level 1-2		



	Mrs. Maricel M. Estabillo (MT I, SJNHS)	Modulo Art Level 1&2 Mrs. Amelia Tibule (HT-III, Laoac NHS) Ms. Glenda Molina (MT-I, Lobong NHS)	Workshop
12:00 – 1:00	L U N C H B R E A K		
1:00 – 3: 00	DAMATH Level 3-4 Mr. Jonathan Condes (MT I, SJNHS)	Workshop Modulo Art Level 3&4 Dr. Lucy Ruby R. Cochero (HT-VI, Manaoag NHS)	Presentation of Outputs / Demo Teaching
3:00 – 5:00	Workshop	Mrs. Marilou I. Marquez (MT-I, Manaoag NHS) Workshop	Closing Program

Cluster III (Binalonan, San Manuel, Asingan, Sta. Maria, Balungao)			
Venue: JUAN G. MACARAEG NATIONAL HIGH SCHOOL			
TIME	DAY 1: April 21, 2023	DAY 2: April 22, 2023	DAY 3: April 23, 2023
7:30-8:45	Registration	Preliminary Activities: ● Prayer ● Ice Breaker ● Recap ● Checking Attendance	Preliminary Activities: ● Prayer ● Ice Breaker ● Recap ● Checking Attendance
8:45 - 9:00	H E A L T H B R E A K		
9:00 – 10:00	Opening Program	Sudoku Puzzle Mr. Arnold Montemayor (HT-III, JGMNHS)	Modulo Art 1 & 2 Mr. Arnold Montemayor (HT-III, JGMNHS)
10:00 – 11:00	Logic Problems Dr. Wilmarie Peduca (HT-III, Amagbagan IS)	Workshop	Modulo Art 3 & 4 Mr. Efren Distor (MT-II JGMNHS)
11:00 – 12:00	Magic Square Mrs. Laarni Mejia (MT II, BVANHS)	Rubik's Cube Mr. Bernard Antonio (HT-III,MPJCL)	Workshop
12:00 – 1:00	L U N C H B R E A K		
1:00 – 3: 00	DAMATH Level 1-4 Mr. Buddy Mamaradlo (MT I, TBNHS)	Workshop Tower of Hanoi Mara P. Laguna (MT-I, Balungao NHS)	Presentation of Outputs / Demo Teaching
3:00 – 5:00	Workshop	Tower of Hanoi Mara P. Laguna (MT-I, Balungao NHS) Workshop	Closing Program



Cluster IV (Rosales, Villasis, Sto. Tomas, Alcala, Bautista)			
Venue: BAUTISTA NATIONAL HIGHSCHOOL			
TIME	DAY 1: April 21, 2023	DAY 2: April 22, 2023	DAY 3: April 23, 2023
7:30-8:45	Registration	Preliminary Activities: ● Prayer ● Ice Breaker ● Recap ● Checking Attendance	Preliminary Activities: ● Prayer ● Ice Breaker ● Recap ● Checking Attendance
8:45 - 9:00	H E A L T H B R E A K		
9:00 – 10:00	Opening Program	Rubik's Cube Mr. Jaime Manuel, Jr. (HT-III, BNHS)/ Joe Balusdasan	Tower of Hanoi Mr. Mandy Casimero (HT-III, San Quintin NHS)
10:00 – 11:00	Magic Square Dr. Mary Lucena DG. Tagama (MT II, CPPNHS)	Workshop DAMATH 1 & 2 Mr. Edgar N. De Vera (HT-III, CPPNHS)	Sudoku Puzzle Mrs. Flornelove R. Opiniano (MT-II, San Quintin NHS)
11:00 – 12:00	Logic Problems Mr. Edwin Mortera (HT-III, DRECNHS)/ Mr. Aries Paningbatan	Workshop	Workshop
12:00 – 1:00	L U N C H B R E A K		
1:00 – 3: 00	Modulo Art 1 & 2 Mr. Arnold Montemayor (HT-III, JGMNHS) Workshop	DAMATH Level 3 & 4 Dr. Pacencia A. Casingal (MT III, BNHS)	Presentation of Outputs / Demo Teaching
3:00 – 5:00	Modulo Art 3 & 4 Dr. Jonathan A. Gevero (MT-I, APVNHS) Workshop	Workshop	Closing Program

Cluster V (Umingan, San Quintin, Natividad, San Nicolas, Tayug)			
Venue: SAN QUINTIN NATIONAL HIGHSCHOOL			
TIME	DAY 1: April 21, 2023	DAY 2: April 22, 2023	DAY 3: April 23, 2023
7:30-8:45	Registration	Preliminary Activities: ● Prayer ● Ice Breaker ● Recap ● Checking Attendance	Preliminary Activities: ● Prayer ● Ice Breaker ● Recap ● Checking Attendance
8:45 - 9:00	H E A L T H B R E A K		
9:00 – 10:00	Opening Program	Rubik's Cube Dr. Ana Perla B. De Guzman	Magic Square Dr. Mary Zucena Tagama



		(HT-VI, BVANIHS)	(MT II, CPPNHS)
10:00 – 11:00	Soduko Puzzle Mrs. Flornelove R. Opiniano (MT II, SQNHS)	Tower of Hanoi Mr. Mandy Casimero (HT-III, San Quintin NHS)	Logic Problems Mr. Edwin Mortera (HT-III, DRECNHS)/ Mr. Aries Paningbatan
11:00 – 12:00	Workshop	DAMATH Level 1&2 Mr. Ferdinand C. Tropa (MT-I, Umingan NHS)	Workshop
12:00 – 1:00	L U N C H B R E A K		
1:00 – 3: 00	Modulo Art Level 1&2 Mrs. Divencia M. Dela Pena (MT-I, La Paz NHS) Dr. Eden Barroga (MT-I, Tayug NHS) Workshop	DAMATH Level 1 & 2 Mr. Ferdinand C. Tropa (MT-I, Umingan NHS) Workshop	Presentation of Outputs / Demo Teaching
3:00 – 5:00	Modulo Art Level 3&4 Mrs. Emil R. Javier (MT-I) Mr. Efren Distor (MT-II JGMNHS) Workshop	DAMATH Level 3 & 4 Mr. Eusebio C. Solis (HT-III) Workshop	Closing Program

DIVISION SEMINAR-WORKSHOP IN TEACHING MATHEMATICS THROUGH RECREATIONAL ACTIVITIES (Elementary)

DETAILED PROGRAM / MATRIX

4th Congressional District

TIME	DAY 1 May 5, 2023	DAY 2 May 6, 2023	DAY 3 May 7, 2023
8:00 – 9:00 AM	Arrival and Registration of Participants	Preliminaries	Preliminaries
9:00 – 10:00 AM	Opening Program	Lecture on Sudoku EUNICE BASBAS	Rubiks Cube ROWENA S. VERA, MTIII
10:00 – 10:15 AM	HEALTH BREAK		
10:15 – 12:00	Lecture on Damath RUSSEL REX ABRERA, PI	Lecture Tower of Hanoi EDMUND PERALTA, PIII DIANA S. GUTAY	Rubiks Cube Demonstration
NOON BREAK			
1:00 – 1:30 PM	MOL	MOL	MOL
1:30 – 3:00 PM	Lecture on Damath JULIUS PIRA, PII KATHLEEN ANNE OLAY, TIII	Modulo Art REYNALDO B. JAVIER, MTII	Workshop on the different manipulatives
3:00 – 3:15 PM	HEALTH BREAK		
3:15 – 5: 00 PM	Lecture on Damath ROSALIE SANTOS, PII	Modulo Art Workshop	Closing Program and Awarding Ceremony



5th Congressional District

TIME	DAY 1 May 5, 2023	DAY 2 May 6, 2023	DAY 3 May 7, 2023
8:00 - 9:00 AM	Arrival and Registration of Participants	Preliminaries	Preliminaries
9:00 - 10:00 AM	Opening Program	Lecture on Sudoku JESUS RESULTAY, PIII	Rubik's Cube EDWIN ADVINCULA, TIII
10:00 - 10:15 AM	HEALTH BREAK		
10:15 - 12:00	Lecture Tower of Hanoi GILDA CABONTOCAN, TIII	Lecture on Damath DYNA ABALOS, HTI	Rubik's Cube Demonstration
NOON BREAK			
1:00 - 1:30 PM	MOL	MOL	MOL
1:30 - 3:00 PM	Modulo Art OSCAR S. JUAN, PII	Lecture on Damath VILLAMOR CONTAOI, HTIII	Workshop on the different manipulatives
3:00 - 3:15 PM	HEALTH BREAK		
3:15 - 5:00 PM	Modulo Art Workshop	Lecture on Damath RAFAEL VIERNES, PII	Closing Program and Awarding Ceremony

6th Congressional District

TIME	DAY 1 May 5, 2023	DAY 2 May 6, 2023	DAY 3 May 7, 2023
8:00 - 9:00 AM	Arrival and Registration of Participants	Preliminaries	Preliminaries
9:00 - 10:00 AM	Opening Program	Lecture on Sudoku FLORIDEL CALACALA, TII	Rubik's Cube JERENZ MERCURIO, TI
10:00 - 10:15 AM	HEALTH BREAK		
10:15 - 12:00	Lecture on Damath NINIA ESTILLORE, PIV	Lecture Tower of Hanoi RUBY DERIJE, PIII	Rubik's Cube Demonstration ROM ROEDER CONIEGA, TI
NOON BREAK			
1:00 - 1:30 PM	MOL	MOL	MOL
1:30 - 3:00 PM	Lecture on Damath DARMER HILDA AQUINO, PII	Modulo Art OSCAR S. JUAN, PII	Workshop on the different manipulatives
3:00 - 3:15 PM	HEALTH BREAK		
3:15 - 5:00 PM	Lecture on Damath JOSEPHONE HERNANDEZ, PI	Modulo Art Workshop	Closing Program and Awarding Ceremony



List of Resource Speakers, Technical Working Group, and Program Management Team

RESOURCE SPEAKERS	TWG	ATTENDING NURSE	PROGRAM MANAGEMENT TEAM
ANA PERLA B. DE GUZMAN	Flornelove R. Opiniano	Elmer Pioquinto	Ana Perla B. De Guzman
WILMARIE PEDUCA	Josefina C Gille	Reizel Joy C. Ancheta	Wilmarie M. Peduca
LAARNI MEJIA	Amelia N. Tibule	Harley Cacondangan	Vivian U. Jallorina
RENATO GATCHALIAN	Candido Polante	Enerson Baje	Marites B. Aquino
JOSEFINA GILLE	Leonora Vitente	Trina A. Guico	Arnold P. Montemayor
LOYETH E. TARAMPI	Lucy Ruby Cachero	RIO DUMLAO	Nympha C. Lopez
DARWIN CARANTES	Vilma Collado		Jaime U. Manuel, Jr.
NOEL M. BAUTISTA	Digna Reyes		Edwin R. Mortera
BERNADETTE A. CASCAÑO	RUSSEL REX A. ABRERA		Mandy O. Casimero
JOE BALUSDASAN	POLICARPIO RIVERA		Rowena P. De Luna
MARITES B. AQUINO	DARMER HILDA O. AQUINO		Rosalino M. Ambrocio
VIVIAN U. JALLORINA	RESOURCE SPEAKERS		Alma R. Castillo
VIVIAN P. CASTRO	REYNALDO B. JAVIER	EDMUND PERALTA	FLORENCE C. MERCURIO
MARICEL M. ESTABILLO	DIANA S. GUTAY	EUNICE BASBAS	JULIUS P. PIRA
JONATHAN CONDES	RUSSEL REX ABRERA	JULIUS PIRA	BLESILDA C. COSTALES
AMELIA N. TIBULE	KATHLEEN ANNE B. OLAY	ROSALIE SANTOS	NINIA P. ESTILLORE
GLENDA MOLINA	ROWENA S. VERA	OSCAR S. JUAN	
VIVIAN P. CASTRO	RESOURCE SPEAKERS		
MARILOU I. MARQUEZ	GILDA CABONTOCAN	JESUS D. RESULTAY	DYNA ABALOS
ARRIANE F. MOLINA	VILLAMOR CONTAOI	RAFAEL VIERNES	EDWIN O. ADVINCULA
ARNOLD P. MONTEMAYOR	RUBY U. DERIJE	FLORIDEL P. CALACALA	NINIA P. ESTILLORE
BERNARD ANTONIO	DARMER HILDA O. AQUINO	JOSEPHINE HERNANDEZ	JERENZ C. MERCURIO
EFREN DISTOR	ROM ROEDER CONIEGA	EUSEBIO C. SOLIS	EMIL R. JAVIER
ARIES PANINGBATAN	EDEN BARROGA	FERDINAND C. TROPIA	DIVENCIA M. DELA PENA
BUDDY MAMARADLO	MANDY CASIMERO	FLORNELOVE R. OPINIANO	JONATHAN A. GEVERO
MARA P. LAGUA	ARIES PANINGBATAN	EDGAR N. DE VERA	EDWIN MORTERA
DARIUS T. MAIQUEZ	MARY LUCENA DG. TAGAMA	JAIME U. MANUEL, JR.	PACENCIA A. CASINGAL
RHANDALE L. CALIP	MR. RICHARD S. CLEMENTE		

